Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L15	17	14 and graph$8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 14:51
L14	30	13 and 3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 14:50
L13	280	relationship with record with data with set	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 14:50
L11	89	(706/61).CCLS.	USPAT; USOCR	OR	OFF	2005/12/20 14:47
L10	617	(705/10).CCLS.	USPAT; USOCR	OR	OFF	2005/12/20 14:47
S1	1	("6014661").PN.	USPAT; USOCR	OR	OFF	2005/12/20 14:46
L9	3293	(707/3).CCLS.	USPAT; USOCR	OR	OFF	2005/12/20 14:46
L7	0	5 and 3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/20 13:48
L5	8	(US-20020149614-$ or US-20020105550-$).did. or (US-5841437-$ or US-5640553-$ or US-5335345-$ or US-6778193-$ or US-6693651-$ or US-6366299-$). did.	US-PGPUB; USPAT	OR	ON	2005/12/20 13:44
L4	0	2 and 3	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/20 13:44
L3	36115	plurality near3 field	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/20 13:44
L2	9	1 and relationship	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/20 13:43

L1	12	dynamic near8 query near8 visuali$8	US-PGPUB; USPAT; USOCR	OR		ON	2005/12/20 13:40
S60	14	S59 and range	US-PGPUB; USPAT; USOCR	OR		ON	2005/12/20 13:04
S59	18	("3296597" | "4752889" | "4823306" | "5224206" | "5335345" | "5454104" | "5499368" | "5535382" | "5594897" | "5608899" | "5640553" | "5734888" | "5768578" | "5794209" | "5799311" | "5841437" | "5918217").PN.	US-PGPUB; USPAT; USOCR	OR		ON	2005/12/20 09:41
S58	2	("6014661").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR		OFF	2005/12/19 18:04

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1 Dynamic queries for information exploration: an implementation and evaluation   ◼
Christopher Ahlberg, Christopher Williamson, Ben Shneiderman
June 1992 **Proceedings of the SIGCHI conference on Human factors in computing systems**
Publisher: ACM Press

Full text available: 📄 pdf(859.79 KB)   Additional Information: full citation, abstract, references, citings, index terms

We designed, implemented and evaluated a new concept for direct manipulation of databases, called dynamic queries, that allows users to formulate queries with graphical widgets, such as sliders. By providing a graphical visualization of the database and search results, users can find trends and exceptions easily. Eighteen undergraduate chemistry students performed statistically significantly faster using a dynamic queries interface compared to two interfaces both providing ...

2 The dynamic HomeFinder: evaluating dynamic queries in a real-estate information exploration system   ◼
Christopher Williamson, Ben Shneiderman
June 1992 **Proceedings of the 15th annual international ACM SIGIR conference on Research and development in information retrieval**
Publisher: ACM Press

Full text available: 📄 pdf(1.20 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

We designed, implemented, and evaluated a new concept for visualizing and searching databases utilizing direct manipulation called dynamic queries. Dynamic queries allow users to formulate queries by adjusting graphical widgets, such as sliders, and see the results immediately. By providing a graphical visualization of the database and search results, users can find trends and exceptions easily. User testing was done with eighteen undergraduate students who performed signif ...

3 Automatic generation of starfield displays using constraints   ◼
Scott E. Hudson, Ian Smith
May 1995 **Conference companion on Human factors in computing systems**
Publisher: ACM Press
Full text available: 📄 pdf(266.14 KB) Additional Information: full citation, references, citings, index terms

4 Technical Reports   ◼
July 1992 **ACM SIGCHI Bulletin**, Volume 24 Issue 3
Publisher: ACM Press

Full text available: pdf(356.66 KB)　　Additional Information: full citation, abstract

The following are abstracts of Technical Reports available from the University of Maryland Human-Computer Interaction Laboratory. Requests for single copies may be sent to Teresa Casey, HCIL, A. V. Williams Building, University of Maryland, College Park, MD 20742 (tcasey@cs.umd.edu).

5 Technical Reports
January 1992 **ACM SIGCHI Bulletin**, Volume 24 Issue 1
Publisher: ACM Press
Full text available: pdf(225.38 KB)　　Additional Information: full citation

6 Advanced graphic user interfaces: elastic and tightly coupled windows
Ben Shneiderman
December 1996 **ACM Computing Surveys (CSUR)**
Publisher: ACM Press
Full text available: html(14.79 KB)　　Additional Information: full citation, references

7 Information visualization advanced interface and Web design
Ben Shneiderman, Catherine Plaisant
April 1998 **CHI 98 conference summary on Human factors in computing systems**
Publisher: ACM Press
Full text available: pdf(474.77 KB)　Additional Information: full citation, references, index terms

8 Debugging lenses: a new class of transparent tools for user interface debugging
Scott E. Hudson, Roy Rodenstein, Ian Smith
October 1997 **Proceedings of the 10th annual ACM symposium on User interface software and technology**
Publisher: ACM Press
Full text available: pdf(1.24 MB)　　Additional Information: full citation, references, citings, index terms

Keywords: Java, context-based rendering, dynamic queries, interactive debugging, lens interaction techniques, subArctic, user interface toolkits

9 Externalising abstract mathematical models
Lisa Tweedie, Robert Spence, Huw Dawkes, Hus Su
April 1996 **Proceedings of the SIGCHI conference on Human factors in computing systems: common ground**
Publisher: ACM Press
Full text available: pdf(1.36 MB) html(35.48 KB)　Additional Information: full citation, references, citings, index terms

Keywords: interactive graphics, visualization

10 AVI '94: An International Workshop
Ben Shneiderman, AI Badre, Paulo Santos
October 1994 **ACM SIGCHI Bulletin**, Volume 26 Issue 4
Publisher: ACM Press

Full text available: pdf(173.03 KB)　　Additional Information: full citation, abstract

The fresh Mediterranean breezes of innovation enlivened the workshop conversations at Advanced Visual Interfaces '94 (Bari, Italy June 1--4, 1994). More than 100 participants met on the flower-gardened grounds of the Grande Albergo di Villa Romanazzi Carducci, whose modern hotel plus conference center complemented the beautifully restored old villa and the marble-lined swimming pool. Being together with active professionals from Europe and America for 4 days gave us an in-depth chance to learn a ...

11　Information retrieval on the web

Mei Kobayashi, Koichi Takeda
June 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 2
Publisher: ACM Press

Full text available: pdf(213.89 KB)　　Additional Information: full citation, abstract, references, citings, index terms

In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as projected number of users, hosts, and Web sites. Although numerical figures vary, overall trends cited by the sources are consistent and point to exponential growth in the past and in the coming decade. Hence it is not surprising that about 85% of Internet user ...

Keywords: Internet, World Wide Web, clustering, indexing, information retrieval, knowledge management, search engine

12　System applications and experience: A data mining based system supporting tactical decisions

Giuseppe Polese, Massimiliano Troiano, Genoveffa Tortora
July 2002 **Proceedings of the 14th international conference on Software engineering and knowledge engineering SEKE '02**
Publisher: ACM Press

Full text available: pdf(222.00 KB)　　Additional Information: full citation, abstract, references

We present a decision support system based on data mining algorithms to be used for tactical decisions. The system has been developed and engineered to solve a typical problem involving strategic decisions: supporting a trainer of a basketball team in making technical/tactical decisions. The experiments conducted on this application domain proved the effectiveness of the system and its underlying algorithms. The basketball domain stressed several aspects of decision making, proving that the used ...

Keywords: apriori algorithm, data mining, decision query, decision support systems, discovery model, verification model

13　Using small screen space more efficiently

Tomonari Kamba, Shawn A. Elson, Terry Harpold, Tim Stamper, Piyawadee Sukaviriya
April 1996 **Proceedings of the SIGCHI conference on Human factors in computing systems: common ground**
Publisher: ACM Press

Full text available: pdf(970.15 KB)
　　　　　　　　　html(32.97 KB)　　Additional Information: full citation, references, citings, index terms

Keywords: PDAs, icons, transparency, usability study

14　Recursive Pattern: A Technique for Visualizing Very Large Amounts of Data

Daniel A. Keim, Mihael Ankerst, Hans-Peter Kriegel

October 1995 **Proceedings of the 6th conference on Visualization '95**

Publisher: IEEE Computer Society

Full text available: pdf(1.57 MB)   Additional Information: full citation, abstract, citings
Publisher Site

An important goal of visualization technology is to support the exploration and analysis of very large amounts of data. In this paper, we propose a new visualization technique called `recursive pattern' which has been developed for visualizing large amounts of multidimensional data. The technique is based on a generic recursive scheme which generalizes a wide range of pixel-oriented arrangements for displaying large data sets. By instantiating the technique with adequate data- and application-de ...

Keywords: Visualizing Large Data Sets, Visualizing Multidimensional and Multivariate Data, Visualizing Large Sequential Data Sets, Recursive Visualization Techniques, Interfaces to Databases

15 Guidelines for using multiple views in information visualization

Michelle Q. Wang Baldonado, Allison Woodruff, Allan Kuchinsky

May 2000 **Proceedings of the working conference on Advanced visual interfaces**

Publisher: ACM Press

Full text available: pdf(2.13 MB)   Additional Information: full citation, abstract, references, citings, index terms

A multiple view system uses two or more distinct views to support the investigation of a single conceptual entity. Many such systems exist, ranging from computer-aided design (CAD) systems for chip design that display both the logical structure and the actual geometry of the integrated circuit to overview-plus-detail systems that show both an overview for context and a zoomed-in-view for detail. Designers of these systems must make a variety of design decisions, ranging from determining lay ...

Keywords: design guidelines, information visualization, multiple views, usability heuristics, user interfaces

16 Applying database visualization to the World Wide Web

Masum Z. Hasan, Alberto O. Mendelzon, Dimitra Vista

December 1996 **ACM SIGMOD Record**, Volume 25 Issue 4

Publisher: ACM Press

Full text available: pdf(399.56 KB)   Additional Information: full citation, abstract, citings, index terms

In this paper, we present visualizations of parts of the network of documents comprising the World Wide Web. We describe how we are using the Hy+ visualization system to visualize the portion of the World Wide Web explored during a browsing session. As the user browses, the web browser communicates the URL and title of each document fetched as well as all the anchors contained in the document. Hy+ displays graphically the history of the navigation a ...

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